

EMBRYOLOGY PRACTICAL LECTURE - 1 - GAMETOGENESIS

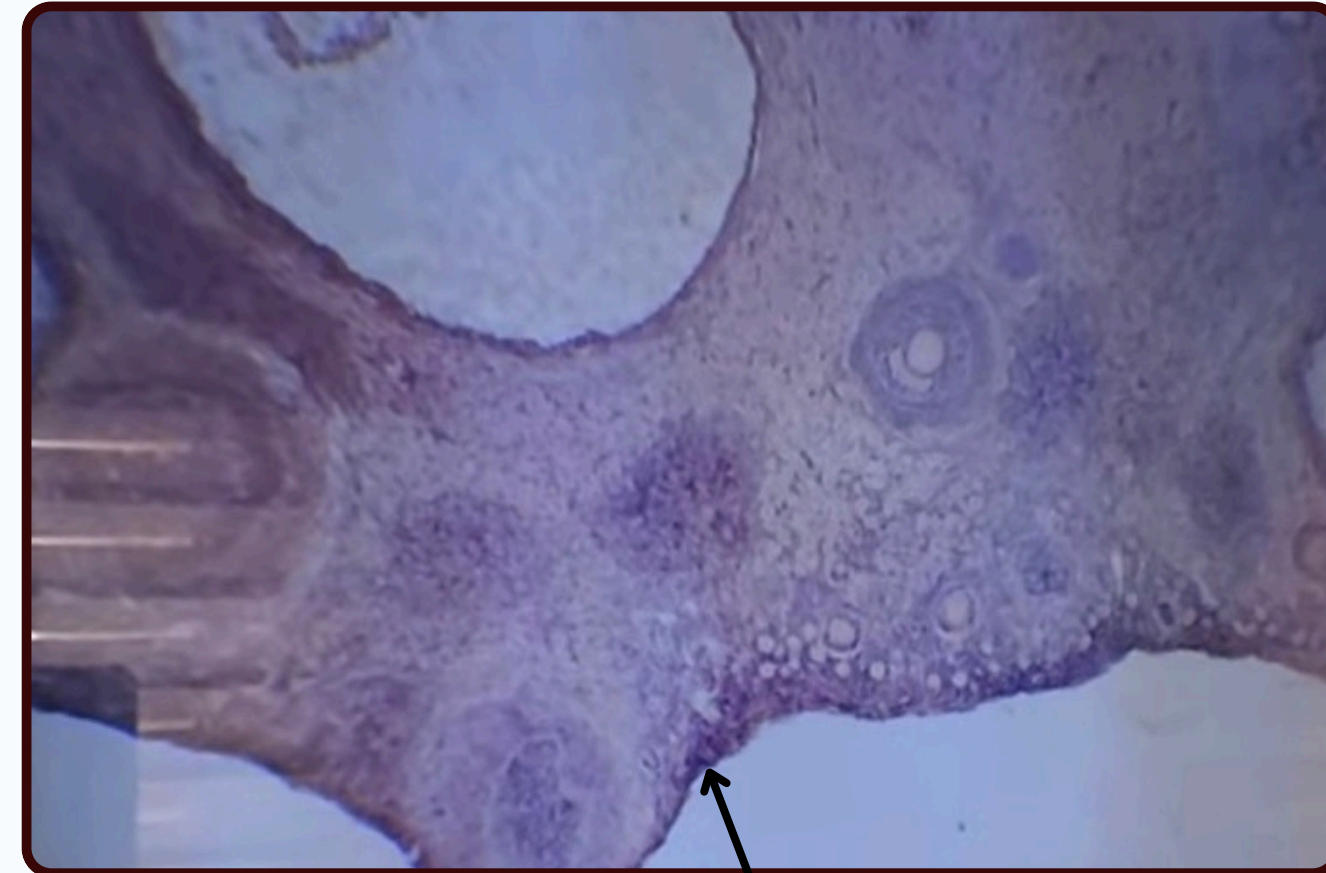
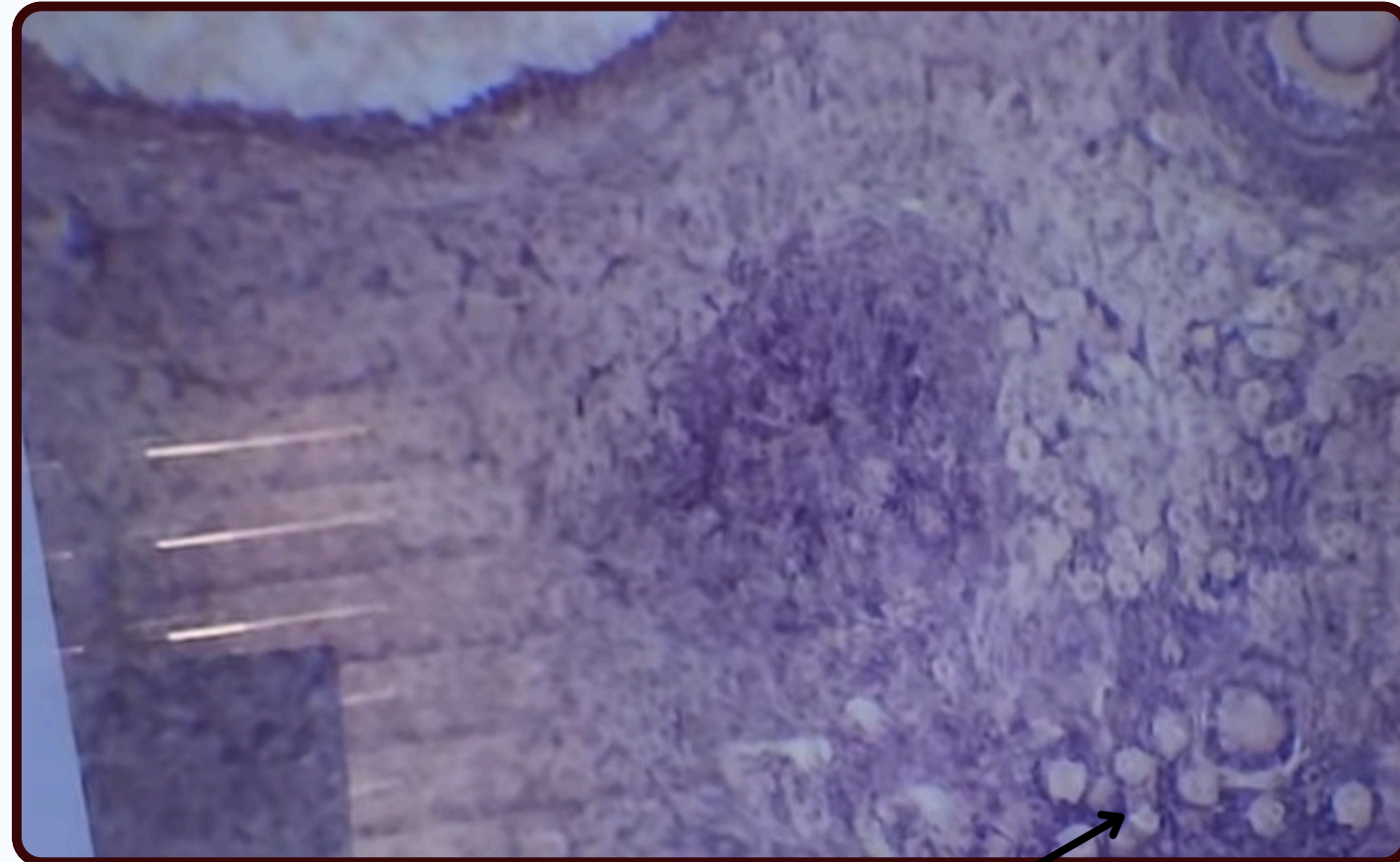
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GAMETOGENESIS

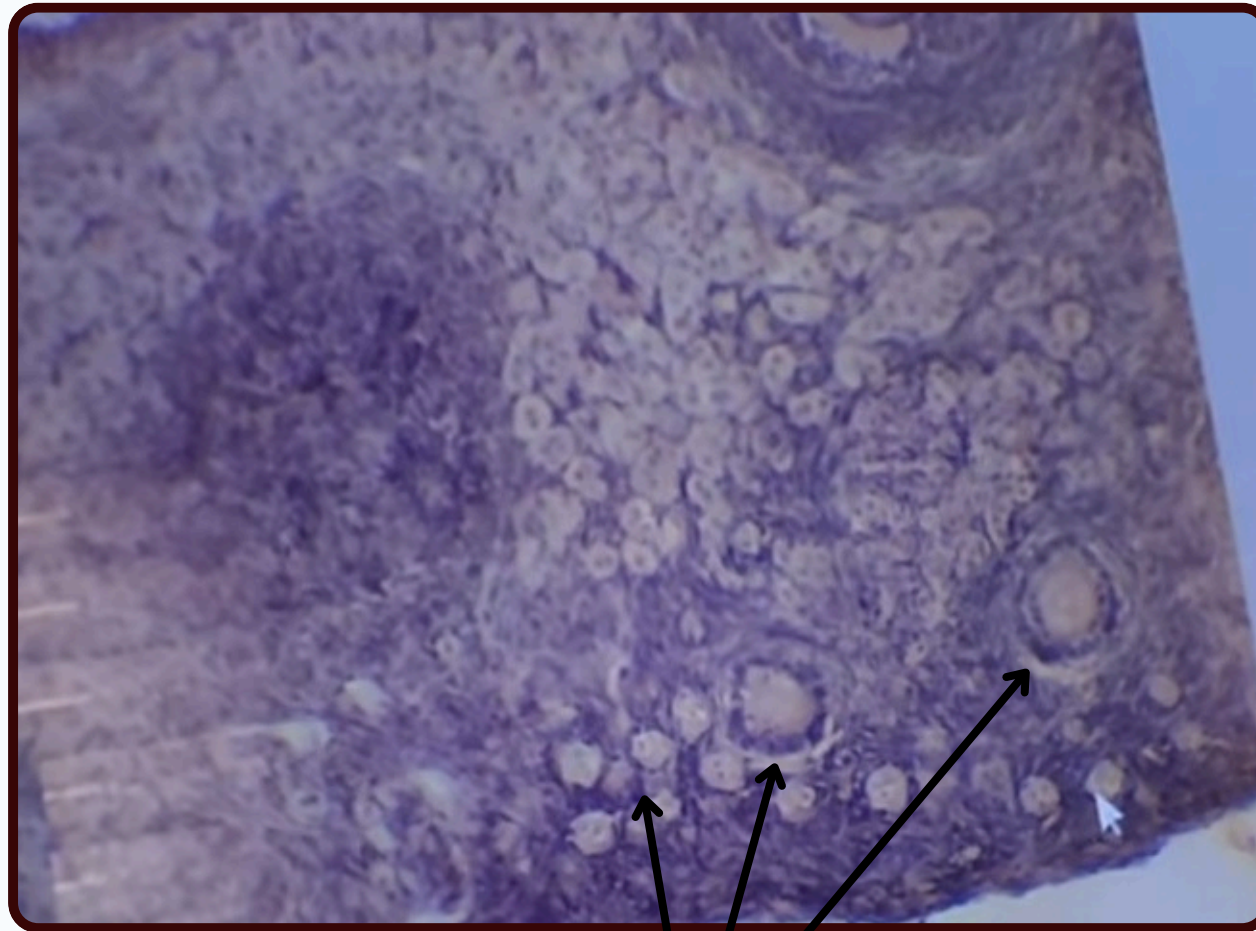


Ovary

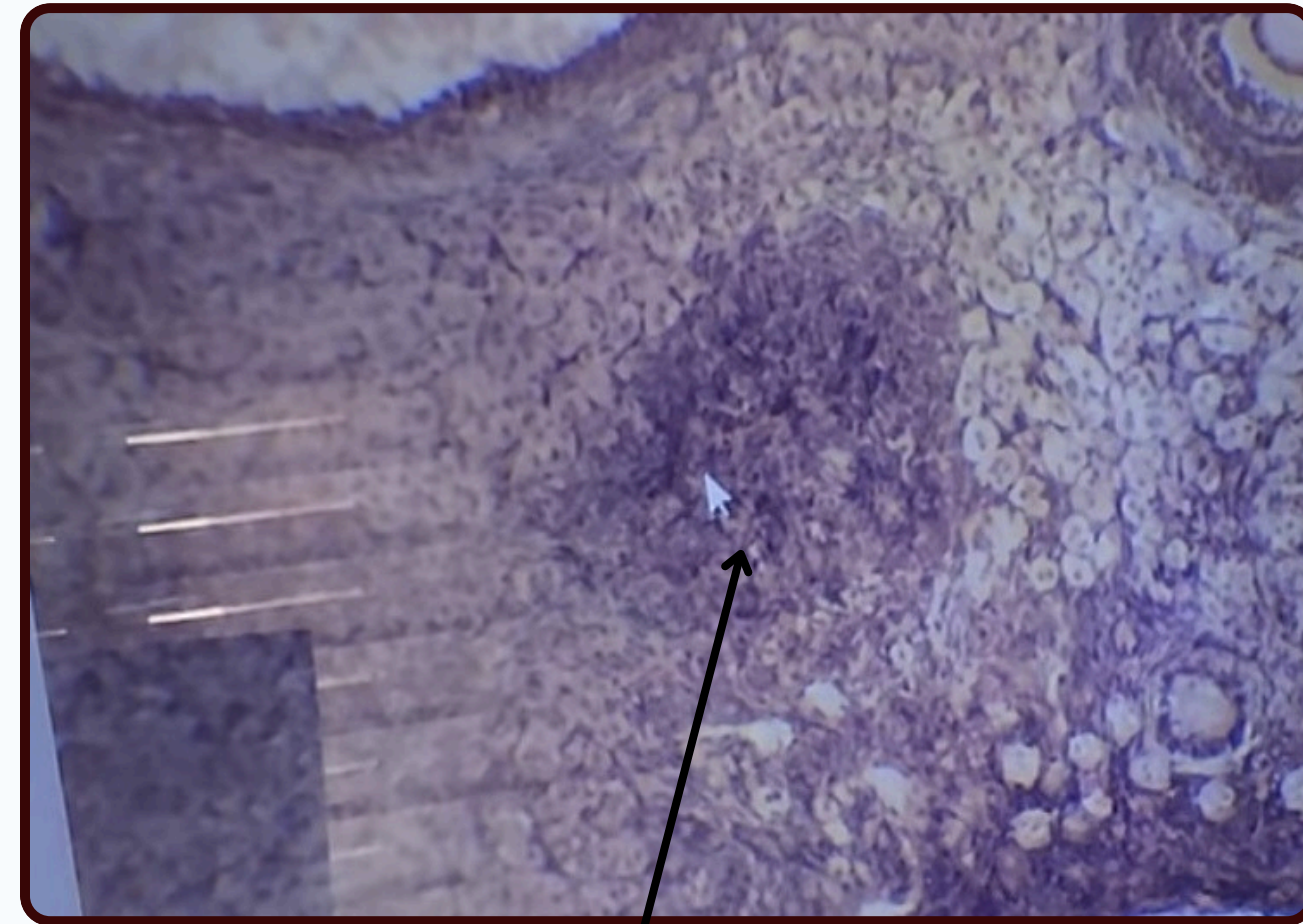
Beneath The germinal epithelium we have dense connective tissue called **Tunica Albuginea**

Surface layer of ovary surrounding by a single layers of cuboidal epithelium called **Germinal Epithelium**

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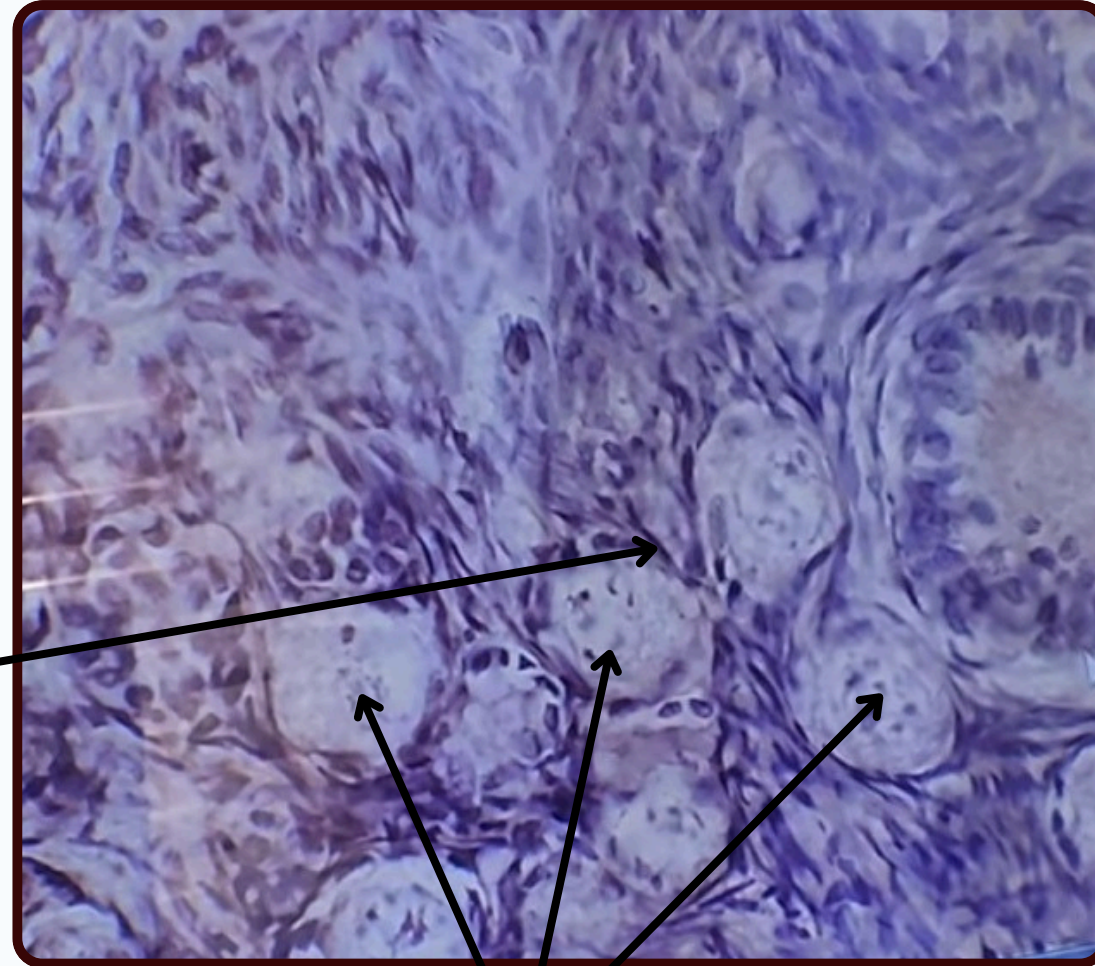
Primordial Follicles



Cortical Region

Feature: Single flattened cell, squamous cell surrounding the primary oocyte

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This is the flattened cell of the primordial follicle

Primary Oocyte

Medulla : Containing :blood, adipose and lymphatic

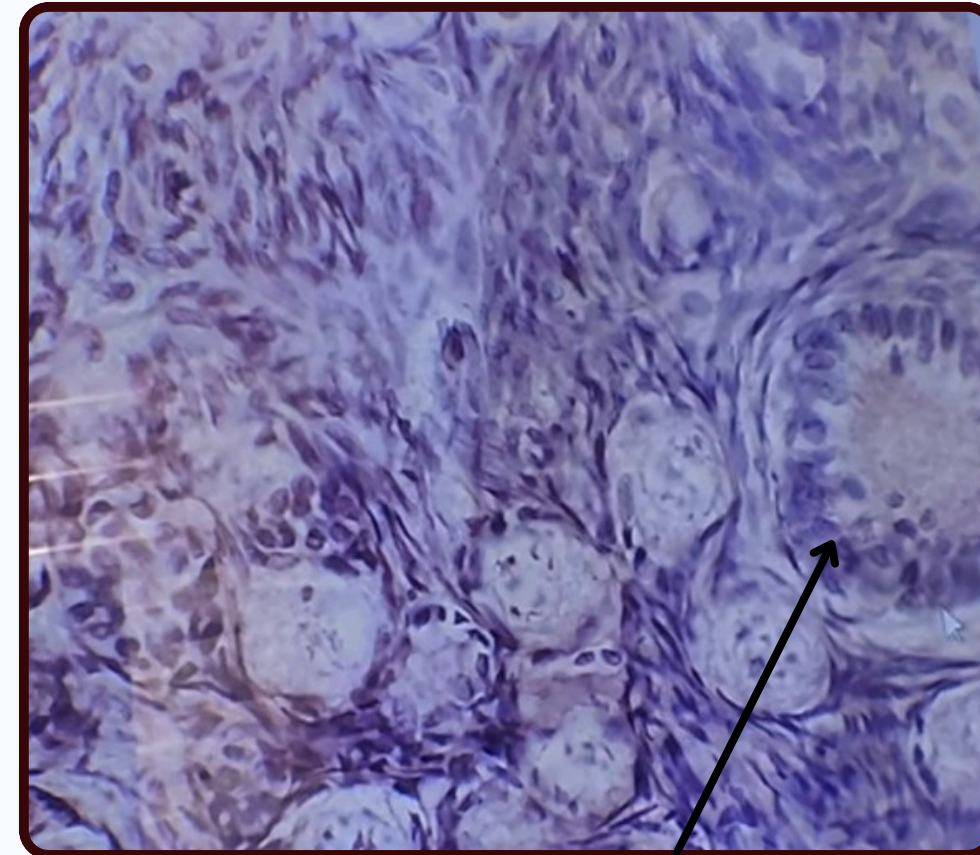
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Nucleus of The
Primary Oocyte

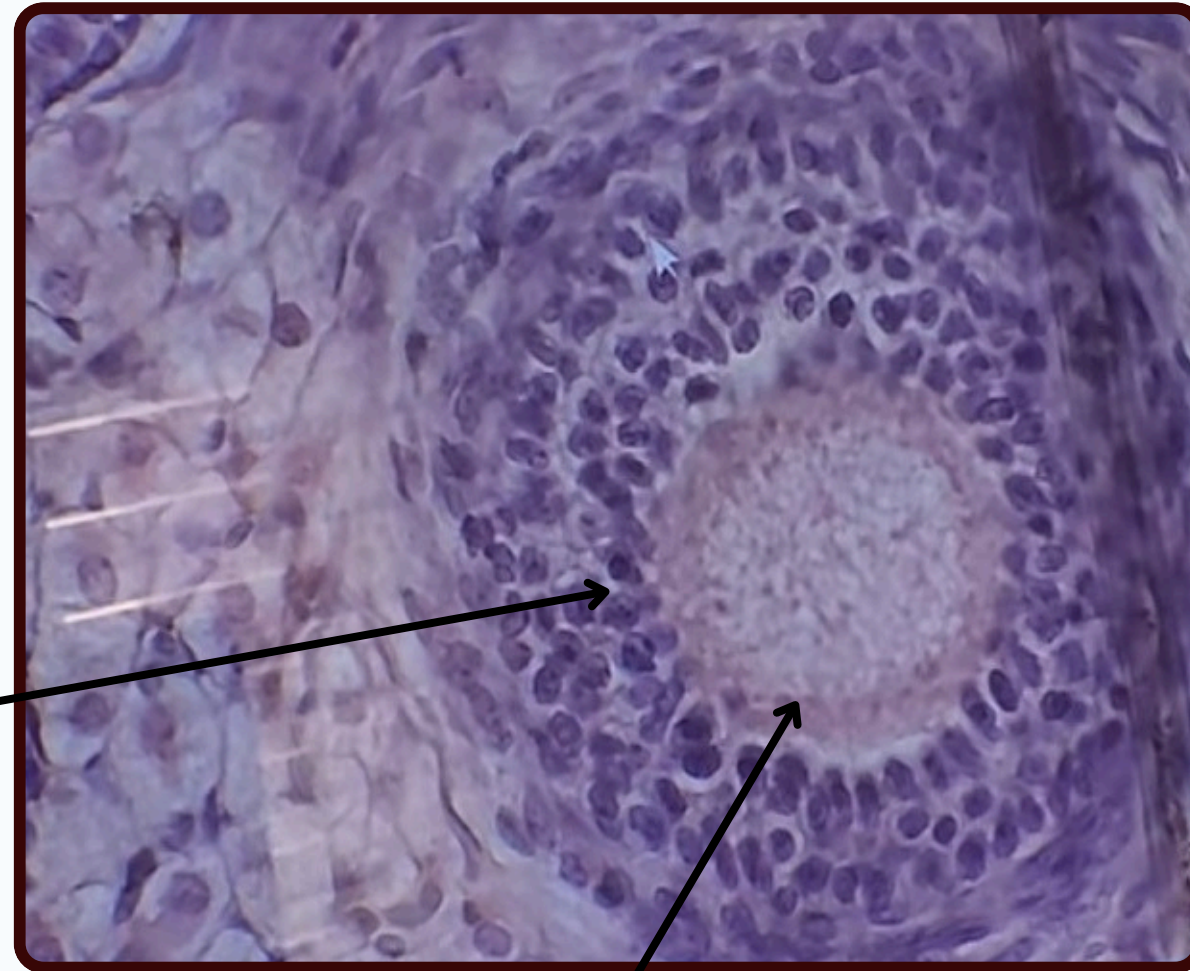


Growing Follicle



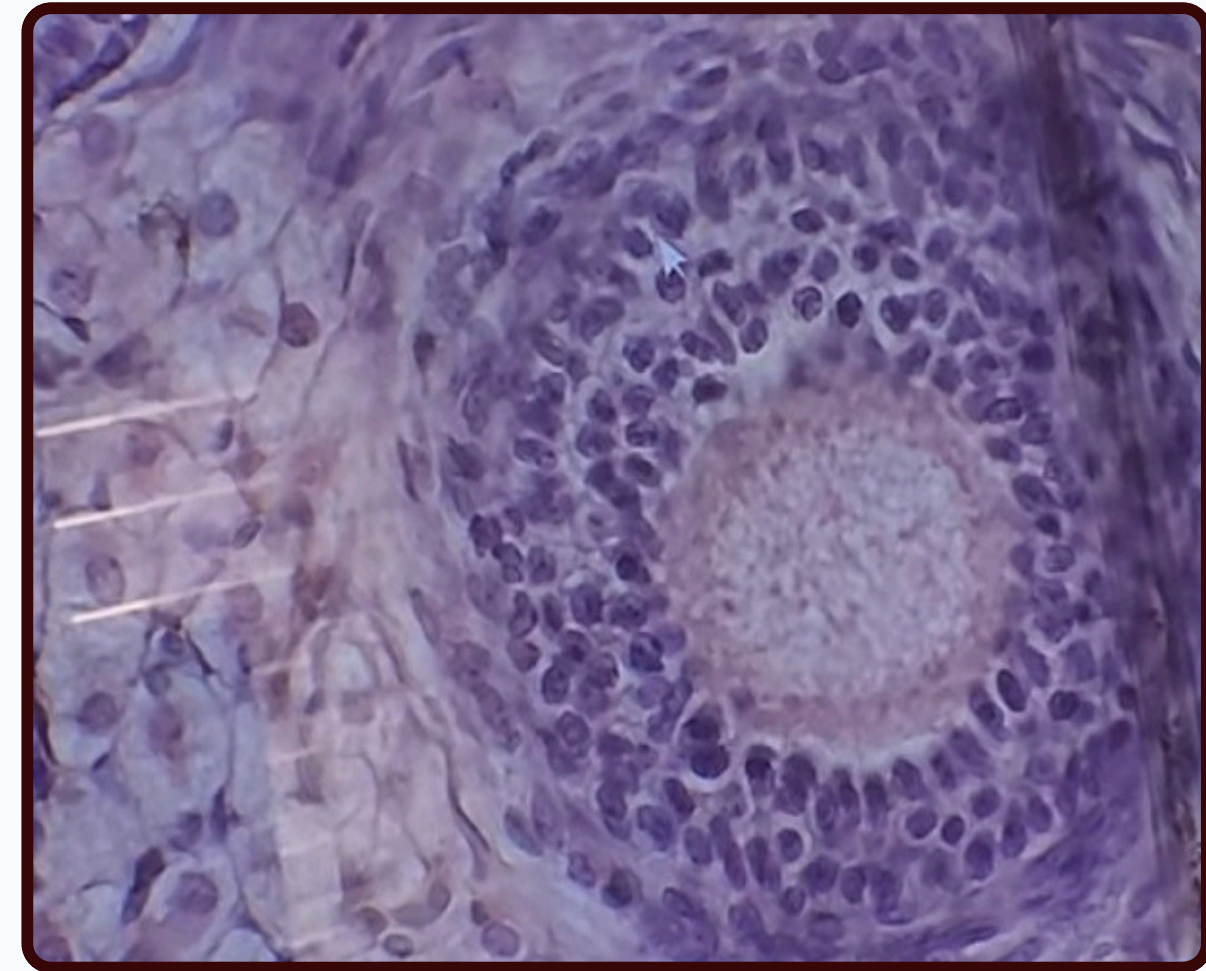
At **Differentiation** the flattened cell
became **cuboidal cell** surrounding also the
primary oocyte

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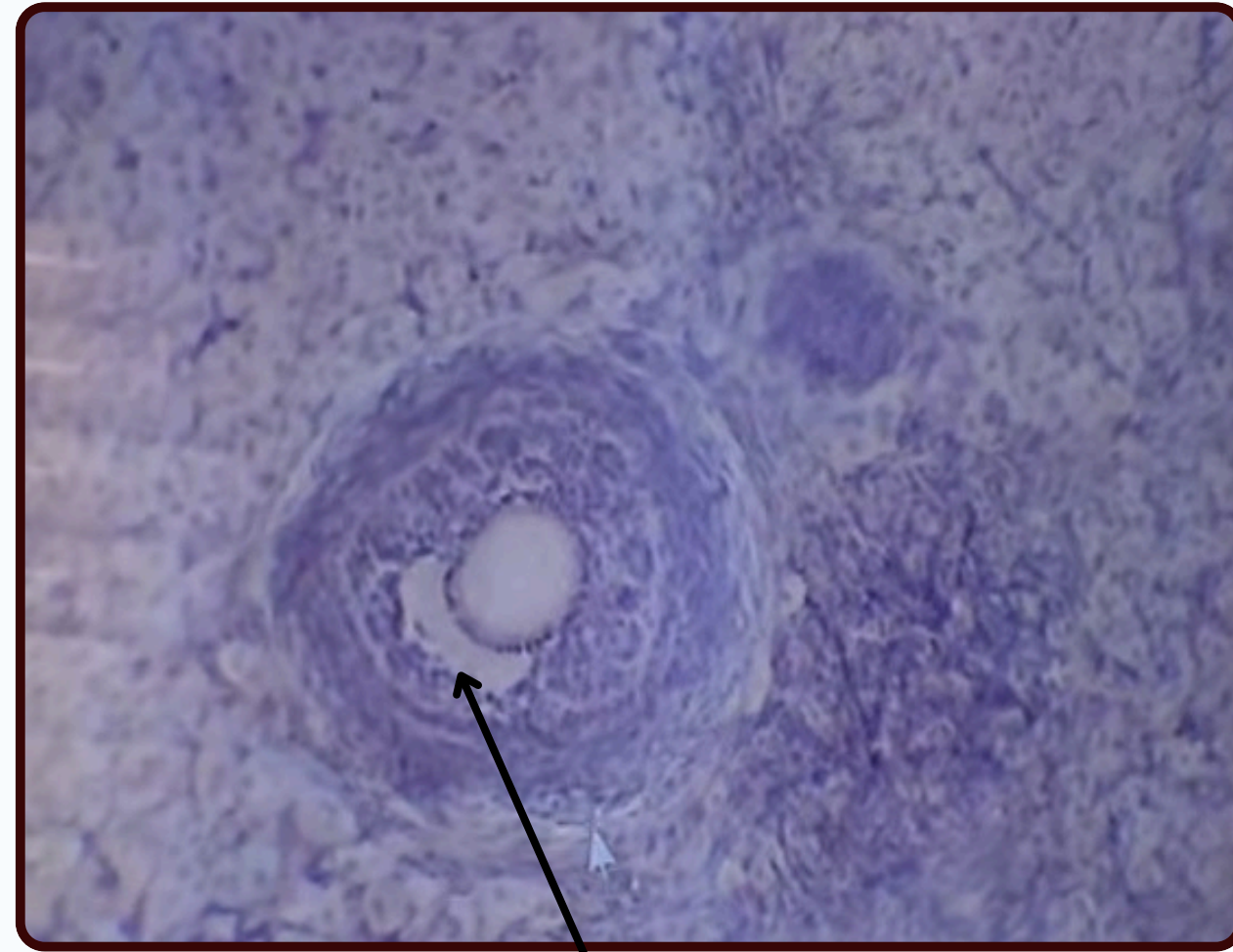
Granulosa cells

None cellular glycoprotein called
Zona Pellucida



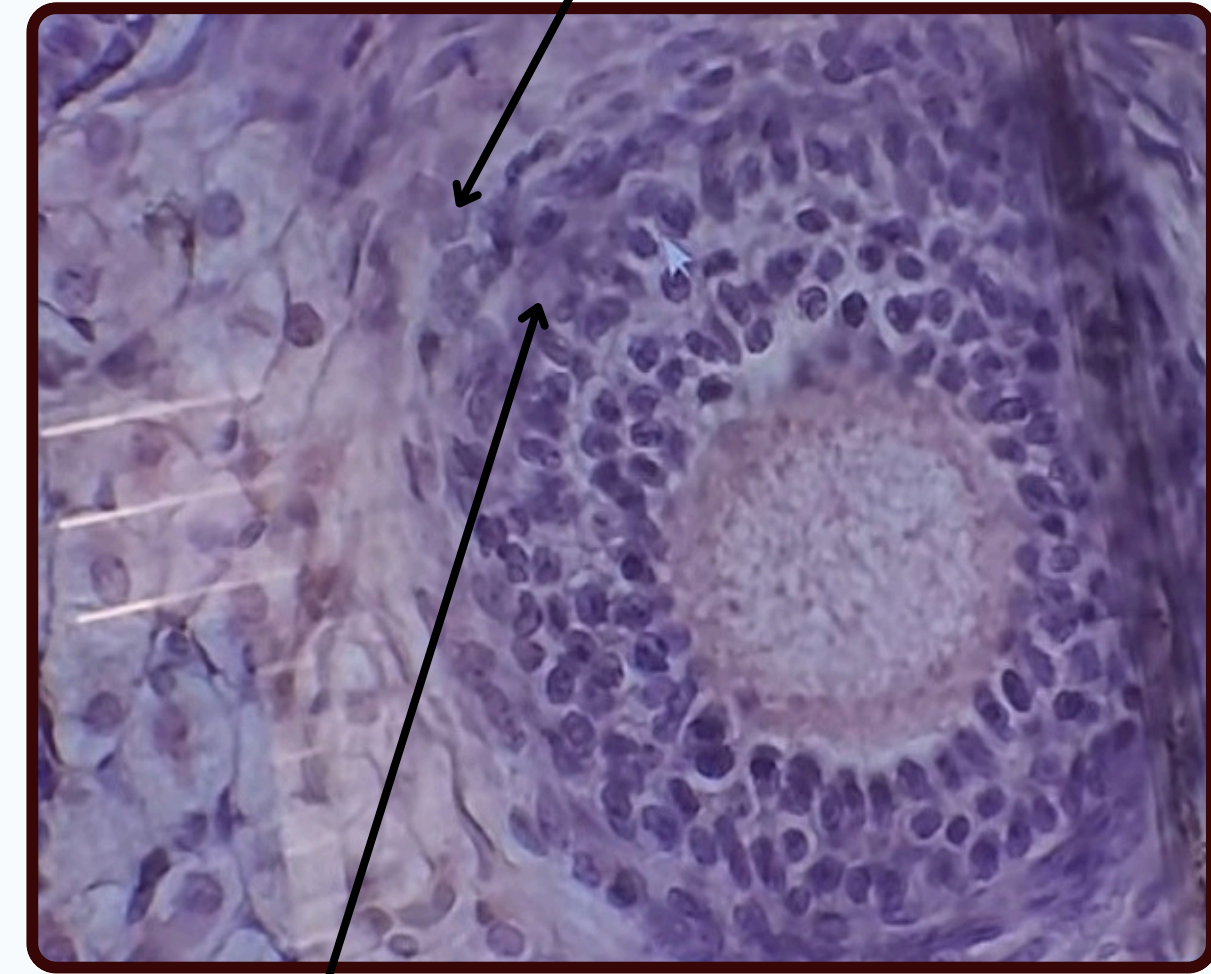
After mitotic division and differentiation the cuboidal cells became stratified and now it's called the **primary follicle** Surrounded the primary Oocyte

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Crescent shape

Now it's called **secondary follicle**
Surrounded the primary oocyte



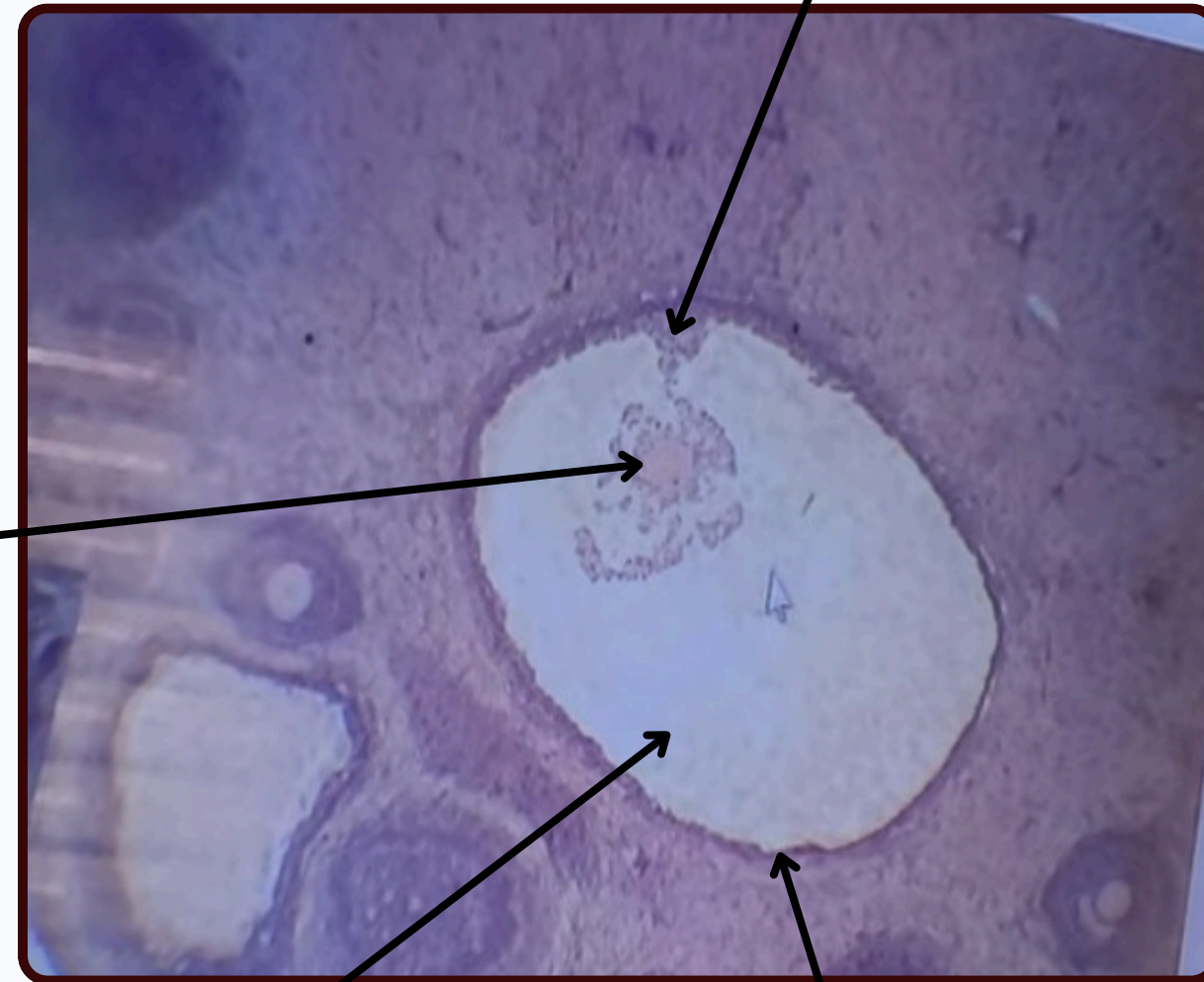
Theca externa
Fibrous connective
tissue

Theca Interna : Have Vascular layer, and steroids
producing cell synthesis estrogen and
progesterone

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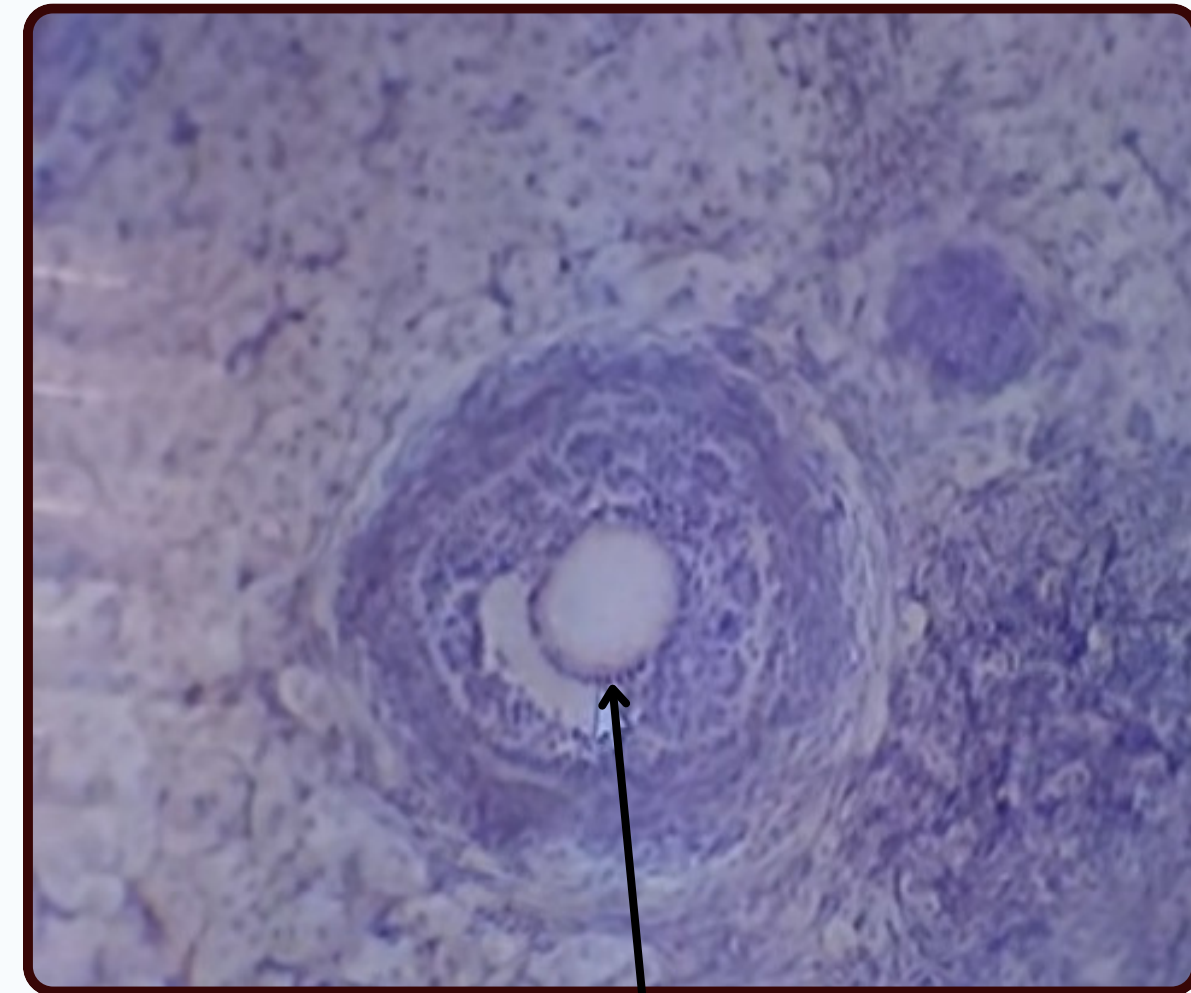
Cumulus Oophorus



Corona Radiata

Antrum

Mature Follicle



Corona Radiata

THANK YOU

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